

# 2006-2008 Science and Technology Appropriations

Appropriations are totals for  
2006-2008.



# Higher Education Research Initiative (HERI)

\$205,540,687 in state,  
federal, and private support  
(Item 250).

## [ HERI (cont.) ]

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- \$10,000,000 for the CTRF to be used for the commercialization of research at universities (must have matching funds).
- \$3,000,000 for a research-related facility along the I-81 corridor.
- \$600,000 to VEDP for the modeling and simulation industry for an Emergency Management Training Simulation.

# [ HERI-Biotechnology ]

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- \$1.2 million for WM and \$17.7 million for GMU for increased capacity in biomedical research and biomaterials engineering.
- \$40.2 million to UVA for research capacity in the areas of bioengineering and regenerative medicine.

## [ HERI-Biotechnology (cont.) ]

- \$19.4 million to VCU for research capacity in the areas of bioengineering and regenerative medicine.
- \$45 million to VT for research capacity in the areas of bioengineering, biomaterials, and nanotechnology.

# HERI- Modeling and Simulation)

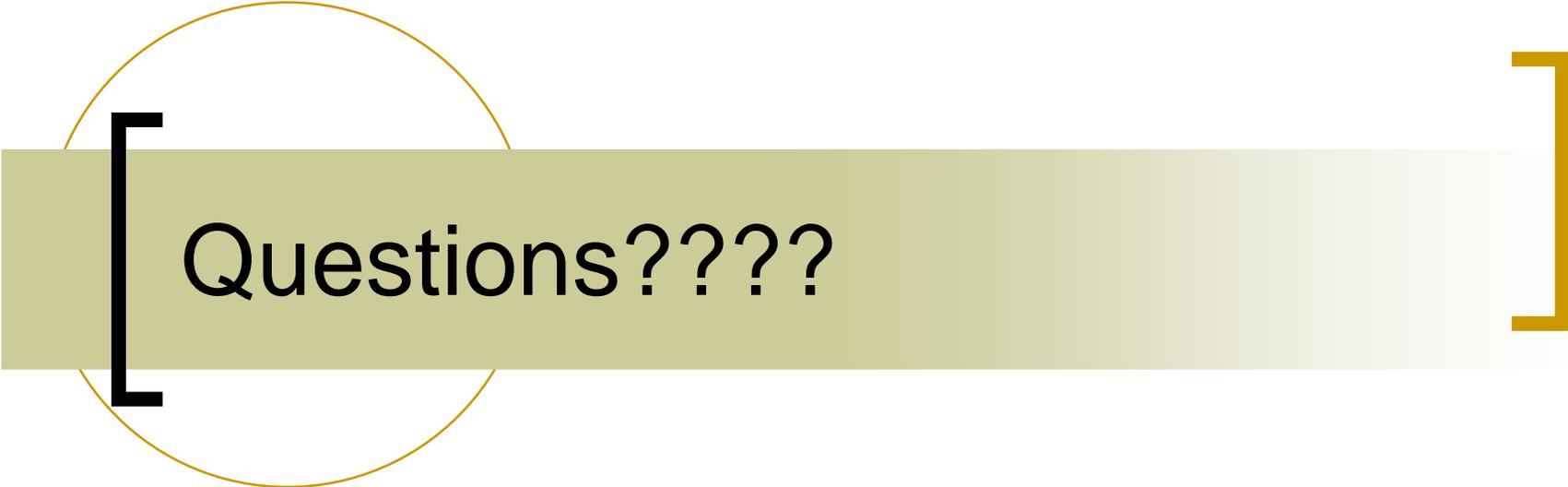
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- \$17 million to ODU to build research capacity in modeling and simulation.
- \$5.4 million to EVMS to build research capacity in medical modeling and simulation.

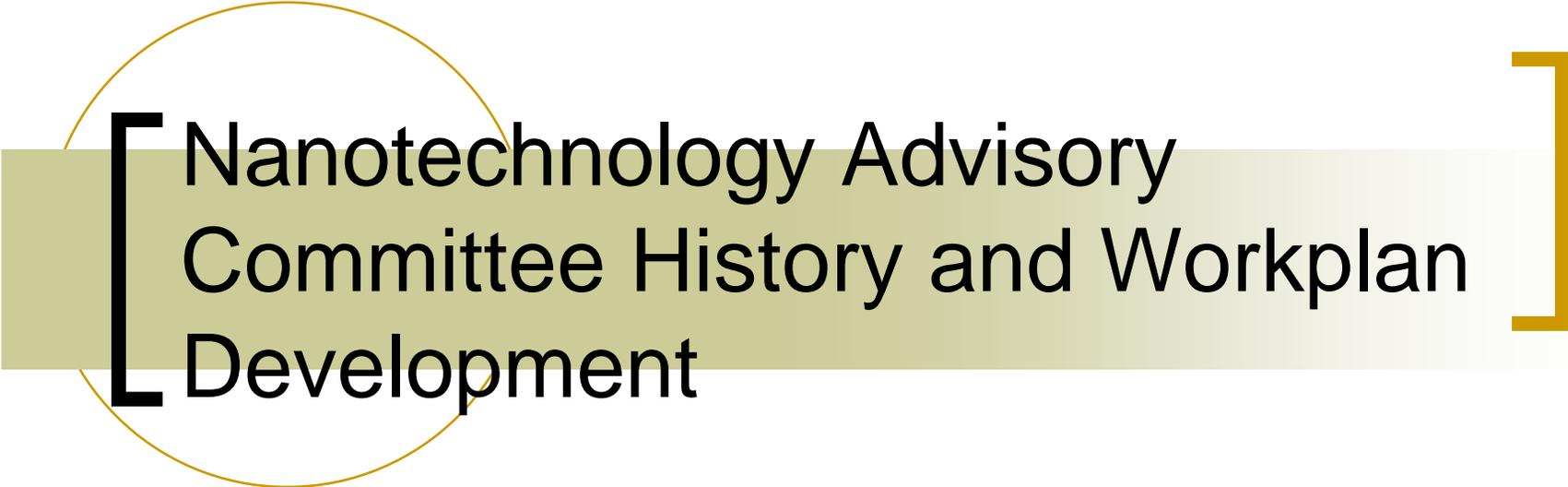
# [ Other Appropriations ]

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- \$250,000 to VEDP for the modeling and simulation industry.
- \$400,000 to VCCS to support modeling and simulation as part of VIMSIM.
- \$200,000 to VEDP for the Virginia Commercial Space Flight Authority.



Questions????



# Nanotechnology Advisory Committee History and Workplan Development

2006 marks the third year of the Nanotechnology Advisory Committee, now divided into Manufacturing and Research and Development subcommittees.

# [ HJ 120 (2004) ]

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- Identify nanotechnology research and economic development opportunities for the Commonwealth.
- Consider the efficacy of creating a statewide, comprehensive and coordinated strategy to secure additional federal research and development funds and to boost commercial activity.

# [ 2004 Summary ]

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- Update on federal involvement, other state initiatives, and Virginia based development.
- Potential state action:
  - Seed money
  - Tax incentives
  - Intellectual property policies and commercialization
  - Education initiatives

# [ Results in 2005! ]

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- HB 134 (2006)- Revising the Commonwealth's IP policies.
- Supporting the FIRST Robotics Competition.
- HJR 25 (2006) – STEM study for K-12, VCCS, and higher education.
- Supported additional funding for the CTRF.
- Keeping the spotlight on nanotechnology in Virginia!

# [ Proposed Workplan for 2006 ]

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- Develop white paper to educate members on how the nanotechnology industry will benefit the Commonwealth.
- Develop a policy position concerning any possible real or perceived health impacts of nanoparticles.

# [ Proposed Workplan (cont.) ]

- State funding: Is it time for public investment?
  - States leading in nanotechnology have spurred industry with public financial support.
- Examples...

# [ Proposed Workplan (cont.) ]

- California: \$100 million in 2000 to create a nanotech institute joining UCLA, UC Santa Barbara and the state as partners in the promotion of rapid commercialization.
- New York: As of 2005, \$750 million in state funds into its nanotech hub, centered at the SUNY-Albany College of Nanoscale Science's Nanotech Institute. Private investments have reached upwards of \$7.25 billion.
- As of March 2005, Pennsylvania had dedicated \$45 million in public funds to the development of its Pennsylvania Initiative for Nanotechnology (PIN). The investment has leveraged more than \$70 million in private and federal funding.

# [ Future Presentations... ]

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- Virginia Nanotechnology Initiative
- George Mason Nanotechnology Initiative
- VRTAC
- CIT
- Chesapeake Nanotechnology Initiative
- ***How will JCOTS contribute?***



# Proposed Workplan for 2006

Roundtable Discussion...